



Substitute for form 1449B/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet

1 of 2

Complete If Known

Application Number	10/014,760
Filing Date	December 11, 2000
First Named Inventor	Kurt J. Richter
Group Art Unit	2121
Examiner Name	Not Yet Assigned
Attorney Docket Number	DO-049581/P021967/10000

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U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
BWT	A	6,285,865	09-04-2001	Vorenkamp et al.	
	B	4,581,643	04-08-1986	Carlson	
	C	4,726,072	02-16-1988	Yamashita et al.	
	D	4,742,566	05-03-1988	Nordholt et al.	
	E	4,979,230	12-18-1990	Marz	
	F	5,038,404	08-06-1991	Marz	
	G	5,060,297	10-22-1991	Ma et al.	
	H	5,140,198	08-18-1992	Atherly et al.	
	I	5,200,826	04-06-1993	Seong	
	J	5,311,318	05-10-1994	Dobrovolny	
	K	5,321,852	06-14-1994	Seong	
	L	5,390,346	02-14-1995	Marz	
	M	5,428,836	06-27-1995	Sanecki et al.	
BWT	N	5,563,545	10-08-1996	Scheinberg	

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OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
BWT	O	Meyer, Robert G. "A 1-GHz BiCMOS RF Front-End IC." IEEE Journal of Solid-State Circuits; Vol. 29 No. 3 (March 1994): 350-355.	
	P	Kinget, Peter and Michiel Steyaert. "A 1 GHz CMOS Upconversion Mixer". IEEE Custom Integrated Circuits Conference. (1996) 197-200.	
	Q	Crols, Jan, and Michel S. J. Steyaert. "A 1.5 GHz Highly Linear CMOS Downconversion Mixer." IEEE Journal of Solid-State Circuits. Vol. 30 No. 7 (July 1995). 736-742.	
	R	Kuhn, William B., William Stephenson, and Aicha Elshabini-Riad. "A 200 MHz CMOS Q-Enhanced LC Bandpass Filter." IEEE Journal of Solid-State Circuits. Vol. 31 No. 8 (August 1996). 1112-1122.	
	S	Okanobu, Taiwa, Hitoshi Tomiyama, and Hiroshi Arimoto. "Advanced Low Voltage Single Chip Radio IC." IEEE Transactions on Consumer Electronics . Vol. 38 No. 3. (August 1992) 465-475.	
	T	Crols, Jan, and Michiel Steyaert. "An Analog Integrated Polyphase Filter for a High Performance Low-IF Receiver." 1995 Symposium on VLSI Circuits Digest Of Technical Papers. (1995) 87-88.	
	U	Anadigics, Inc. CATV/TV/CABLE MODEM UPCONVERTER MMIC. Warren NJ (April 22, 1998).	
	V	Anadigics Inc. VHF/UHF CATV/TV Tuner Dowconverter. Warren, NJ. (April 22, 1998).	
	W	Anadigics, Inc. Anadigics Technical Brief. Upconverter MMIC for CATV Preliminary. Warren, NJ. (January 11, 1994).	
	X	Archer, John, and John Granlund, and Robert E. Mauzy. "A Broad-Band UHF Mixer Exhibiting High Image Rejection over a Multidecade Baseband Frequency Range." IEEE Journal of Solid-State Circuits, Vol. SC-16 No. 4 (August 1981) 385-392.	
	Y	"Double-balanced mixer and oscillator" Phillips Semiconductors. (November 7, 1997). 1-11	
	Z	Gilbert, Barrie. "Demystifying the Mixer" Analog Devices Inc. (April 1994). 1-58.	
	AA	Scheinberg, N., et al. "A GaAs Up Converter Interated Circuit for a Double Conversion Cable TV "Set-Top" Tuner" International Conference on Consumer Electronics. (June 1993). 108-109.	
	AB	Maier, G.M., et al. "Double Conversion Tuner a Must for the Future?" IEEE Transaction on Consumer Electronics, Vol. 38, No. 3. (August 1992). 384-388.	
	AC	Gilbert, Barrie and Baines, Rupert. "Fundamentals of Active Mixers" Applied Microwave and Wireless. (1995). 10-27.	
BWT	AD	Muller, J-E., et al. "A Double-Conversion Broad Band TV Tuner with GaAs ICs." GaAs IC	

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O I P E J C T 1

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet

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of

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Complete if Known

Application Number	10/014,760
Filing Date	December 11, 2000
First Named Inventor	Kurt J. Richter
Group Art Unit	2121
Examiner Name	Not Yet Assigned

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BWT	Symposium Technical Digest. (1984). 97-98.
AE	Nakatsuka, T., et al., "Low Distortion and Low Noise Oscillator Mixer for CATV Converters." GaAs Symposium Technical Digest. (1988). 161-164.
AF	Brady, Vernon, et al. "Development of a Monolithic FET Ka-Band Single Side Band UFConverter and Image Reject Downconverter." GaAs Symposium Technical Digest (October 1989) 189-192.
AG	Ablassmeier, Ulrich, et al. "GaAs FET Upconverter for TV Tuner" IEEE Transactions on Electron Devices, Vol ED-27, No. 6. (June 1980). 1156-1159.
AH	Maas, Stephen A. "A GaAs MESFET Mixer with Very Low Intermodulation" IEEE Transactions on Microwave Theory and Techniques, Vol. MTT-35, No. 4. (April 1987). 425-429.
AI	Pandula, Louis. "Image Reect and Image Canceling Mixers" RF Design. (April 1995). 60-65.
AJ	Svelto, F., et al. "A Low-Voltage Topology After CMOS RF Mixers." IEEE Transactions on Consumer Electronics., Vol. 45, No. 2 (May 1999). 299- 309.
AK	Gilbert, Barrie. "The MICROMIXER: A highly Linear Variant of the Gilbert Mixer using a Bisymmetric Class-AB Input Stage" IEEE Journal of Solid-State Circuits, Vol. 32, No. 9, (September 1997). 1412-1423.
AL	Ducourant, Thierry, et al. "A 3 Chip GaAs Double Conversion TV Tuner System with 70 dB Image Rejection." Monolithic Circuits Symposium Digest of Papers. (1988). 87-90.
AM	Torji, K., et al. "monolithic Integrated VHF TV Tuner." IEEE Transactions on Consumer Electronics, Vol. CE-26. (May 1980). 180-189.
AN	MC13143: Ultra Low Power DC-2.4 GHz Linear Mixer: Motorola, Inc. Issue 2. (1996). 1-8.
AO	Maier, Gerd M. "New System Approach to TV Tuner Design." IEEE Transactions on Consumer Electronics, Vol. 36, No. 3. (August 1990). 403-406.
AP	McDonald, Mark D. "A 2.5GHz BiCMOS Image-Reject Front-End" IEEE International Solid-State Circuits Conference. (1993). 144-145.
AQ	Lovelace, David, et al. "Silicon Upconverter RF IC Simplifies Cable Modem Designs" Microwaves & RF (March 1997). 136-142.
AR	Farmer, James O. "Specifications for Tuner Design for use in Cable Ready Television Receivers and VCRs." IEEE Transactions on Consumer Electronics, Vol. 36, No. 3., (August 1990). 660-668.
AS	Abidi, Asad A. "Direct-Conversion Radio Transceivers for Digital Communications." IEEE International Solid-State Circuits Conference. (1995). 186-187; 363-364.
AT	Al-Hashimi, Bashir. "Understand the Fundamentals of Passive Video Filters." Microwaves & RF. (May 1996). 171-178.
AU	Crols, Jan and Michiel Steyaert. "A Fully integrated 900MHz CMOS Double Quadrature Downconverter" IEEE International Solid-State Circuits Conference. (1995). 136-137.
AV	Long, John R., et al. "A Low-Voltage Silicon Bipolar RF Front -End for PCN Receiver Applications." IEEE International Solid-State Circuits Conference. (1995). 104-105; 140-141.
AW	Sabin, William E. & Edgar O. Schoenike. "Single -Sideband Systems & Circuits." McGraw Hill Book Company, New York. (1987). 88-134, 181-213.
AX	"Opencable Set-top Terminal CORE Functional Requirement for Bi-directional Cable" Interim Specification, Cable Television Laboratories, Inc. 2000; pp.12-14
AY	"250 MHz QAM IF Downconverter" California Eastern Laboratories
AZ	"A Dual-Channel QAM/QPSK Receiver IC with Integrated Cable Set-Top Box Functionality" Lionel D'Luna et al.; IEEE 1998 Custom Integrated Circuits Conference; pp. 351-352

Examiner Signature	<i>Barry J. Day</i>	Date Considered	2/24/06
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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PTO/SB/08A (10-01)

Approved for use through 10/31/2002. OMB 0651-0031
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				Filing Date	December 11, 2001
				First Named Inventor	Kurt J. Richter
				Art Unit	2121
				Examiner Name	Not Yet Assigned
				Attorney Docket Number	49581/P028US/10103789

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
BUT	AA	US-6,081,697 A	06-27-2000	Haartsen	RECEIVED SEP 23 2003 Technology Center 2100
BUT	AB	US-6,314,279 B1	11-06-2001	Mohindra	
BUT	AC	US-4,115,737	12-19-1978	Hongu et al.	
BUT	AD	US-2001/0027095 A1	10-04-2001	Wang	

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ³ -Number-Kind Code ⁴ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
BUT	BA	-EP 0 849 873 A1	06-24-1998	Plessey Semiconductors Limited	T ⁵
BUT	BB	-EP 0 779 707 A1	06-18-1997	Thomson Consumer Electronics, Inc.	

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NON PATENT LITERATURE DOCUMENTS					
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, page(s), volume-issue number(s), publisher, city and/or country where published.			T ²
BUT	CA	International Search Report for PCT/US02/38886, September 12, 2003			

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Examiner Signature	<i>Barry J Taylor</i>	Date Considered	2124/06
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